## Volume 05.06, September 2007 Gaseous Fuels; Coal and Coke

## **Standards and Related Materials Contained in this Volume:**

D121-07 Standard Terminology of Coal and Coke - (View Full Text)

<u>D167-93(2004)e1 Standard Test Method for Apparent and True Specific Gravity and</u> Porosity of Lump Coke - (View Full Text)

<u>D197-87(2002)</u> Standard Test Method for Sampling and Fineness Test of Pulverized Coal - (View Full Text)

D291-86(2002) Standard Test Method for Cubic Foot Weight of Crushed Bituminous Coal - (View Full Text)

<u>D293-93(2004)</u> Standard Test Method for the Sieve Analysis of Coke - (View Full Text)

<u>D346-04e1 Standard Practice for Collection and Preparation of Coke Samples for</u> Laboratory Analysis - (View Full Text)

D388-05 Standard Classification of Coals by Rank - (View Full Text)

D409-02 Standard Test Method for Grindability of Coal by the Hardgrove-Machine Method - (View Full Text)

D440-86(2002) Standard Test Method of Drop Shatter Test for Coal - (View Full Text)

D441-86(2002) Standard Test Method of Tumbler Test for Coal - (View Full Text)

<u>D720-91(2004)e1 Standard Test Method for Free-Swelling Index of Coal</u> - <u>(View Full Text)</u>

<u>D1070-03 Standard Test Methods for Relative Density of Gaseous Fuels</u> - <u>(View Full Text)</u>

<u>D1071-83(2003)</u> Standard Test Methods for Volumetric Measurement of Gaseous Fuel Samples - (View Full Text)

<u>D1072-06 Standard Test Method for Total Sulfur in Fuel Gases by Combustion and Barium Chloride Titration</u> - (View Full Text)

<u>D1142-95(2006)</u> Standard Test Method for Water Vapor Content of Gaseous Fuels by Measurement of Dew-Point Temperature - (View Full Text)

<u>D1412-04 Standard Test Method for Equilibrium Moisture of Coal at 96 to 97 Percent</u> Relative Humidity and 30°C - (View Full Text)

<u>D1756-02(2007)</u> Standard Test Method for Determination as Carbon Dioxide of Carbonate Carbon in Coal - (View Full Text)

<u>D1757-03 Standard Test Method for Sulfate Sulfur in Ash from Coal and Coke</u> - <u>(View Full Text)</u>

D1826-94(2003) Standard Test Method for Calorific (Heating) Value of Gases in

Natural Gas Range by Continuous Recording Calorimeter - (View Full Text)

<u>D1857-04 Standard Test Method for Fusibility of Coal and Coke Ash</u> - <u>(View Full Text)</u>

<u>D1945-03 Standard Test Method for Analysis of Natural Gas by Gas Chromatography</u> - (View Full Text)

D1946-90(2006) Standard Practice for Analysis of Reformed Gas by Gas

Chromatography - (View Full Text)

<u>D1988-06 Standard Test Method for Mercaptans in Natural Gas Using Length-of-Stain</u> Detector Tubes - (View Full Text)

<u>D2013-07 Standard Practice for Preparing Coal Samples for Analysis</u> - <u>(View Full Text)</u>

D2014-97(2004) Standard Test Method for Expansion or Contraction of Coal by the

Sole-Heated Oven - (View Full Text)

<u>D2234/D2234M-07 Standard Practice for Collection of a Gross Sample of Coal</u> - <u>(View Full Text)</u>

D2361-02 Standard Test Method for Chlorine in Coal - (View Full Text)

<u>D2492-02(2007)</u> Standard Test Method for Forms of Sulfur in Coal - (View Full Text)

D2639-04e1 Standard Test Method for Plastic Properties of Coal by the Constant-

Torque Gieseler Plastometer - (View Full Text)

<u>D2797-04 Standard Practice for Preparing Coal Samples for Microscopical Analysis by Reflected Light</u> - (View Full Text)

<u>D2798-06 Standard Test Method for Microscopical Determination of the Vitrinite</u> Reflectance of Coal - (View Full Text)

<u>D2799-05a Standard Test Method for Microscopical Determination of the Maceral</u> Composition of Coal - (View Full Text)

D2961-02(2007) Standard Test Method for Single-Stage Total Moisture Less than 15% in Coal Reduced to 2.36-mm (No. 8 Sieve) Topsize - (View Full Text)

<u>D3038-93(2004)</u> Standard Test Method for Drop Shatter Test for Coke - (View Full Text)

<u>D3172-07 Standard Practice for Proximate Analysis of Coal and Coke</u> - <u>(View Full Text)</u>

<u>D3173-03 Standard Test Method for Moisture in the Analysis Sample of Coal and Coke</u> - (View Full Text)

D3174-04 Standard Test Method for Ash in the Analysis Sample of Coal and Coke from Coal - (View Full Text)

<u>D3175-07 Standard Test Method for Volatile Matter in the Analysis Sample of Coal and Coke</u> - (View Full Text)

<u>D3176-89(2002)</u> Standard Practice for Ultimate Analysis of Coal and Coke - (View Full Text)

D3177-02(2007) Standard Test Methods for Total Sulfur in the Analysis Sample of Coal and Coke - (View Full Text)

<u>D3179-02e1 Standard Test Methods for Nitrogen in the Analysis Sample of Coal and Coke</u> - (View Full Text)

D3180-07 Standard Practice for Calculating Coal and Coke Analyses from As-

Determined to Different Bases - (View Full Text)

D3302-07 Standard Test Method for Total Moisture in Coal - (View Full Text)

<u>D3402-93(2001)</u> Standard Test Method for Tumbler Test for Coke - (View Full Text)

D3588-98(2003) Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels - (View Full Text)

<u>D3682-01(2006)</u> Standard Test Method for Major and Minor Elements in Combustion Residues from Coal Utilization Processes - (View Full Text)

D3683-04 Standard Test Method for Trace Elements in Coal and Coke Ash by Atomic Absorption - (View Full Text)

<u>D3684-01(2006)</u> Standard Test Method for Total Mercury in Coal by the Oxygen Bomb Combustion/Atomic Absorption Method - (View Full Text)

<u>D3761-96(2002)</u> Standard Test Method for Total Fluorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method - (View Full Text)

<u>D3956-07 Standard Specification for Methane Thermophysical Property Tables</u> - <u>(View Full Text)</u>

<u>D3984-93(2003) Standard Specification for Ethane Thermophysical Property Tables</u> - (View Full Text)

D3997-97(2004) Standard Practice for Preparing Coke Samples for Microscopical

Analysis by Reflected Light - (View Full Text)

D4084-07 Standard Test Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method) - (View Full Text)

D4150-03 Standard Terminology Relating to Gaseous Fuels - (View Full Text)

D4182-97(2004) Standard Practice for Evaluation of Laboratories Using ASTM

Procedures in the Sampling and Analysis of Coal and Coke - (View Full Text)

D4208-02(2007) Standard Test Method for Total Chlorine in Coal by the Oxygen Bomb Combustion/Ion Selective Electrode Method - (View Full Text)

D4239-05 Standard Test Methods for Sulfur in the Analysis Sample of Coal and Coke

Using High Temperature Tube Furnace Combustion Methods - (View Full Text)

D4326-04 Standard Test Method for Major and Minor Elements in Coal and Coke Ash By X-Ray Fluorescence - (View Full Text)

D4362-93(2003) Standard Specification for Propane Thermophysical Property Tables -(View Full Text)

D4371-06 Standard Test Method for Determining the Washability Characteristics of Coal - (View Full Text)

D4468-85(2006) Standard Test Method for Total Sulfur in Gaseous Fuels by

Hydrogenolysis and Rateometric Colorimetry - (View Full Text)

D4596-07 Standard Practice for Collection of Channel Samples of Coal in a Mine -(View Full Text)

D4606-03 Standard Test Method for Determination of Arsenic and Selenium in Coal by the Hydride Generation/Atomic Absorption Method - (View Full Text)

D4621-99(2004) Standard Guide for Quality Management in an Organization That

Samples or Tests Coal and Coke - (View Full Text)

D4650-93(2003) Standard Specification for Normal Butane Thermophysical Property Tables - (View Full Text)

D4651-93(2003) Standard Specification for Isobutane Thermophysical Property Tables - (View Full Text)

D4702-07 Standard Practice for Quality Management of Mechanical Coal Sampling Systems - (View Full Text)

D4749-87(2002)e1 Standard Test Method for Performing the Sieve Analysis of Coal and Designating Coal Size - (View Full Text)

D4784-93(2003) Standard for LNG Density Calculation Models - (View Full Text)

D4810-06 Standard Test Method for Hydrogen Sulfide in Natural Gas Using Length-of-Stain Detector Tubes - (View Full Text)

D4888-06 Standard Test Method for Water Vapor in Natural Gas Using Length-of-Stain Detector Tubes - (View Full Text)

D4891-89(2006) Standard Test Method for Heating Value of Gases in Natural Gas Range by Stoichiometric Combustion - (View Full Text)

D4916-04 Standard Practice for Mechanical Auger Sampling - (View Full Text)

D4984-06 Standard Test Method for Carbon Dioxide in Natural Gas Using Length-of-

Stain Detector Tubes - (View Full Text)

D5016-07 Standard Test Method for Sulfur in Ash from Coal, Coke, and Residues from Coal Combustion Using High-Temperature Tube Furnace Combustion Method with Infrared Absorption - (View Full Text)

D5061-05 Standard Test Method for Microscopical Determination of the Textural Components of Metallurgical Coke - (View Full Text)

D5114-90(2004) Standard Test Method for Laboratory Froth Flotation of Coal in a Mechanical Cell - (View Full Text)

D5142-04 Standard Test Methods for Proximate Analysis of the Analysis Sample of

<u>Coal and Coke by Instrumental Procedures</u> - <u>(View Full Text)</u>

<u>D5192-99(2004)e1 Standard Practice for Collection of Coal Samples from Core</u> - <u>(View Full Text)</u>

D5263-93(2001) Standard Test Method for Determining the Relative Degree of

Oxidation in Bituminous Coal by Alkali Extraction - (View Full Text)

<u>D5287-97(2002)</u> Standard Practice for Automatic Sampling of Gaseous Fuels - (View Full Text)

<u>D5341-99(2004)</u> Standard Test Method for Measuring Coke Reactivity Index (CRI) and Coke Strength After Reaction (CSR) - (View Full Text)

D5373-02(2007) Standard Test Methods for Instrumental Determination of Carbon,

Hydrogen, and Nitrogen in Laboratory Samples of Coal and Coke - (View Full Text)

<u>D5454-04 Standard Test Method for Water Vapor Content of Gaseous Fuels Using</u> Electronic Moisture Analyzers - (View Full Text)

D5503-94(2003) Standard Practice for Natural Gas Sample-Handling and Conditioning Systems for Pipeline Instrumentation - (View Full Text)

D5504-01(2006) Standard Test Method for Determination of Sulfur Compounds in

Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence - (View Full Text)

<u>D5515-97(2004)e2</u> Standard Test Method for Determination of the Swelling Properties of Bituminous Coal Using a Dilatometer - (View Full Text)

D5671-95(2005) Standard Practice for Polishing and Etching Coal Samples for

Microscopical Analysis by Reflected Light - (View Full Text)

<u>D5865-07 Standard Test Method for Gross Calorific Value of Coal and Coke</u> - <u>(View Full Text)</u>

D5954-98(2006) Standard Test Method for Mercury Sampling and Measurement in

Natural Gas by Atomic Absorption Spectroscopy - (View Full Text)

D5987-96(2002) Standard Test Method for Total Fluorine in Coal and Coke by

<u>Pyrohydrolytic Extraction and Ion Selective Electrode or Ion Chromatograph Methods</u> - (View Full Text)

D6172-98(2004) Standard Test Method for Determining the Volume of Bulk Materials Using Contours or Cross Sections Created by Direct Operator Compilation Using Photogrammetric Procedures - (View Full Text)

<u>D6228-98(2003)</u> Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Flame Photometric Detection - (View Full Text)

<u>D6273-98(2003)</u> Standard Test Methods for Natural Gas Odor Intensity - (View Full Text)

D6316-04 Standard Test Method for Determination of Total, Combustible and

<u>Carbonate Carbon in Solid Residues from Coal and Coke</u> - (View Full Text)

D6347/D6347M-05 Standard Test Method for Determination of Bulk Density of Coal

<u>Using Nuclear Backscatter Depth Density Methods</u> - (View Full Text)

D6349-07 Standard Test Method for Determination of Major and Minor Elements in

Coal, Coke, and Solid Residues from Combustion of Coal and Coke by Inductively

Coupled Plasma-Atomic Emission Spectrometry - (View Full Text)

D6350-98(2003) Standard Test Method for Mercury Sampling and Analysis in Natural

Gas by Atomic Fluorescence Spectroscopy - (View Full Text)

D6357-04 Test Methods for Determination of Trace Elements in Coal, Coke, &

Combustion Residues from Coal Utilization Processes by Inductively Coupled Plasma

Atomic Emission, Inductively Coupled Plasma Mass, & Graphite Furnace Atomic

Absorption Spec - (View Full Text)

D6414-01(2006) Standard Test Methods for Total Mercury in Coal and Coal

Combustion Residues by Acid Extraction or Wet Oxidation/Cold Vapor Atomic

Absorption - (View Full Text)

D6518-07 Standard Practice for Bias Testing a Mechanical Coal Sampling System -(View Full Text)

D6542-05 Standard Practice for Tonnage Calculation of Coal in a Stockpile - (View Full Text)

D6543-00(2006) Standard Guide to the Evaluation of Measurements Made by On-Line Coal Analyzers - (View Full Text)

D6609-01 Standard Guide for Part-Stream Sampling of Coal - (View Full Text)

D6721-01(2006) Standard Test Method for Determination of Chlorine in Coal by

Oxidative Hydrolysis Microcoulometry - (View Full Text)

D6722-01(2006) Standard Test Method for Total Mercury in Coal and Coal

Combustion Residues by Direct Combustion Analysis - (View Full Text)

D6796-02 Standard Practice for Production of Coal, Coke and Coal Combustion

Samples for Interlaboratory Studies - (View Full Text)

D6883-04 Standard Practice for Manual Sampling of Stationary Coal from Railroad

Cars, Barges, Trucks, or Stockpiles - (View Full Text)

D6968-03 Standard Test Method for Simultaneous Measurement of Sulfur Compounds

and Minor Hydrocarbons in Natural Gas and Gaseous Fuels by Gas Chromatography

and Atomic Emission Detection - (View Full Text)

D7164-05 Standard Practice for On-line/At-line Heating Value Determination of

Gaseous Fuels by Gas Chromatography - (View Full Text)

D7165-06 Standard Practice for Gas Chromatograph Based On-line/At-line Analysis for Sulfur Content of Gaseous Fuels - (View Full Text)

D7166-05 Standard Practice for Total Sulfur Analyzer Based On-line/At-line for Sulfur Content of Gaseous Fuels - (View Full Text)

D7256/D7256M-06a Standard Practice for Mechanical Collection and Within-System

Preparation of a Gross Sample of Coal from Moving Streams - (View Full Text)

D7265-06 Standard Specification for Hydrogen Thermophysical Property Tables -(View Full Text)

D7348-07 Standard Test Methods for Loss on Ignition (LOI) of Solid Combustion Residues - (View Full Text)

SI Quick Reference Guide: International System of Units (SI) - The Modern Metric <u>System</u> - (View Full Text)

## Withdrawn Standards

D3178 Standard Test Methods for Carbon and Hydrogen in the Analysis Sample of Coal and Coke (Withdrawn 2007) Replaced by D5573